

FIG. 3B

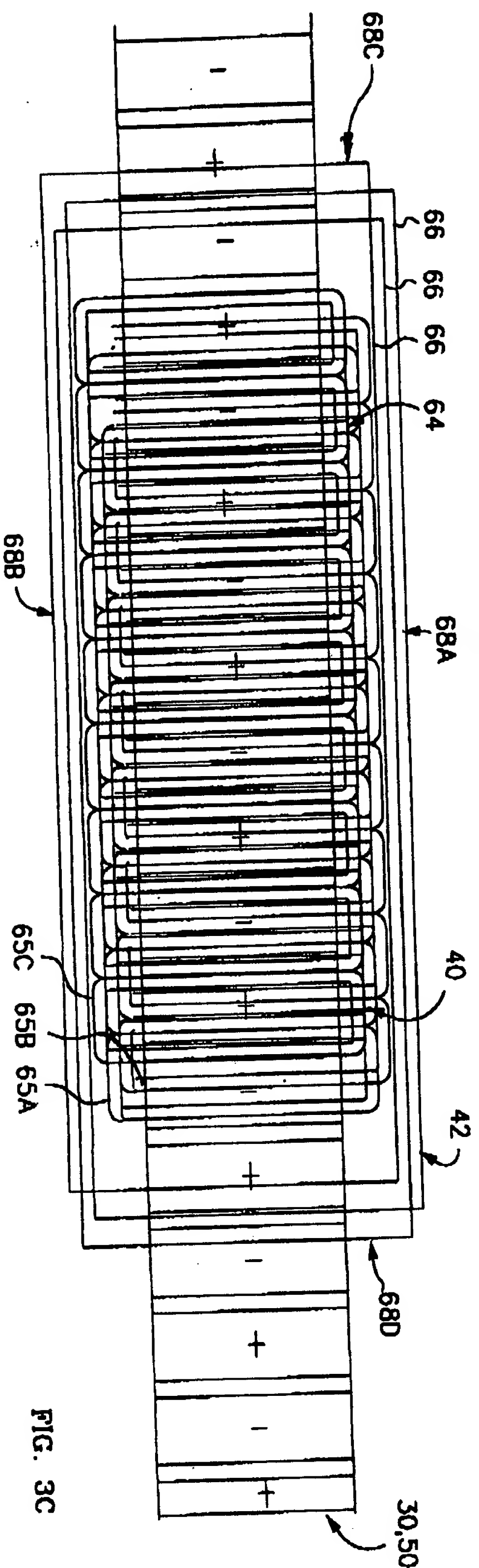


FIG. 3C

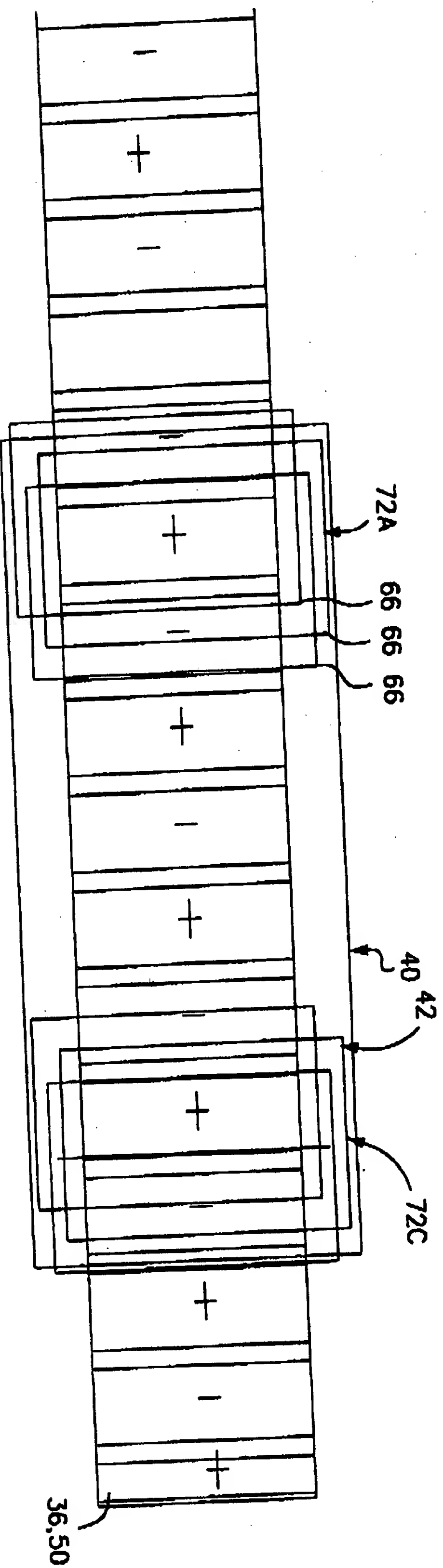


FIG. 5B

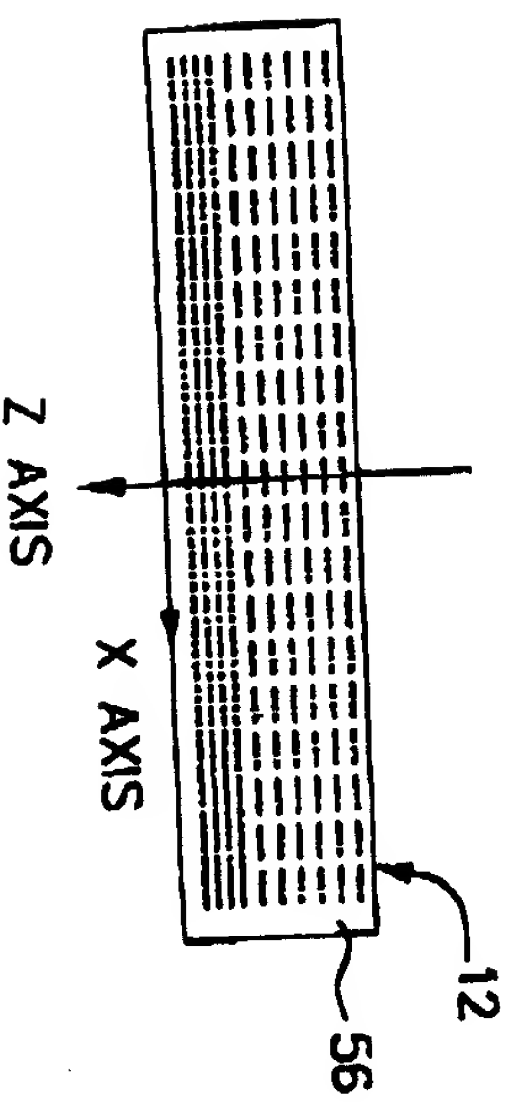


FIG. 6A

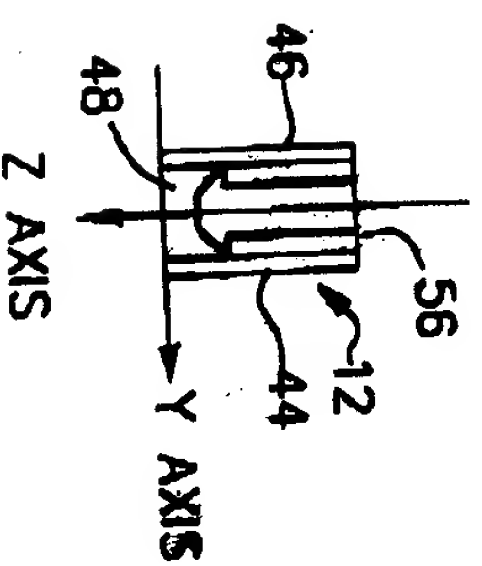
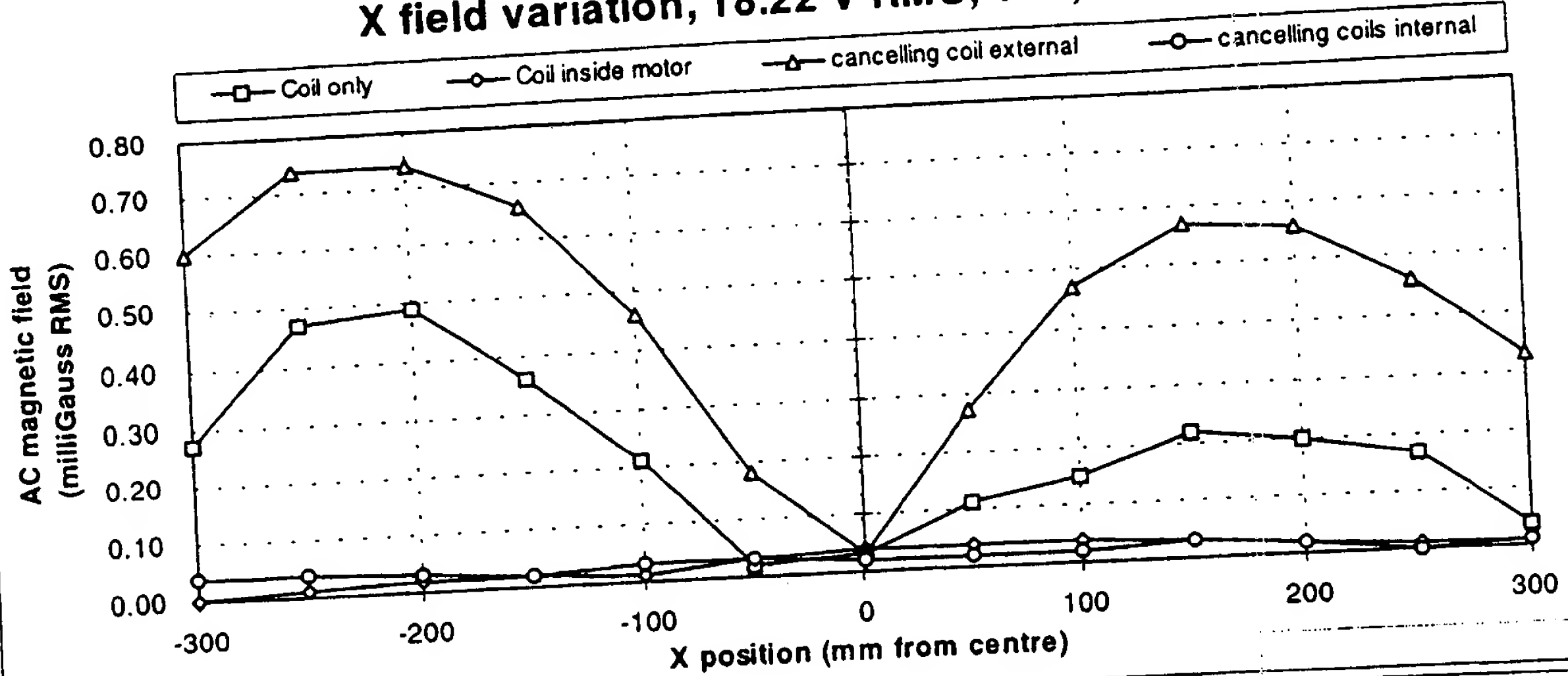
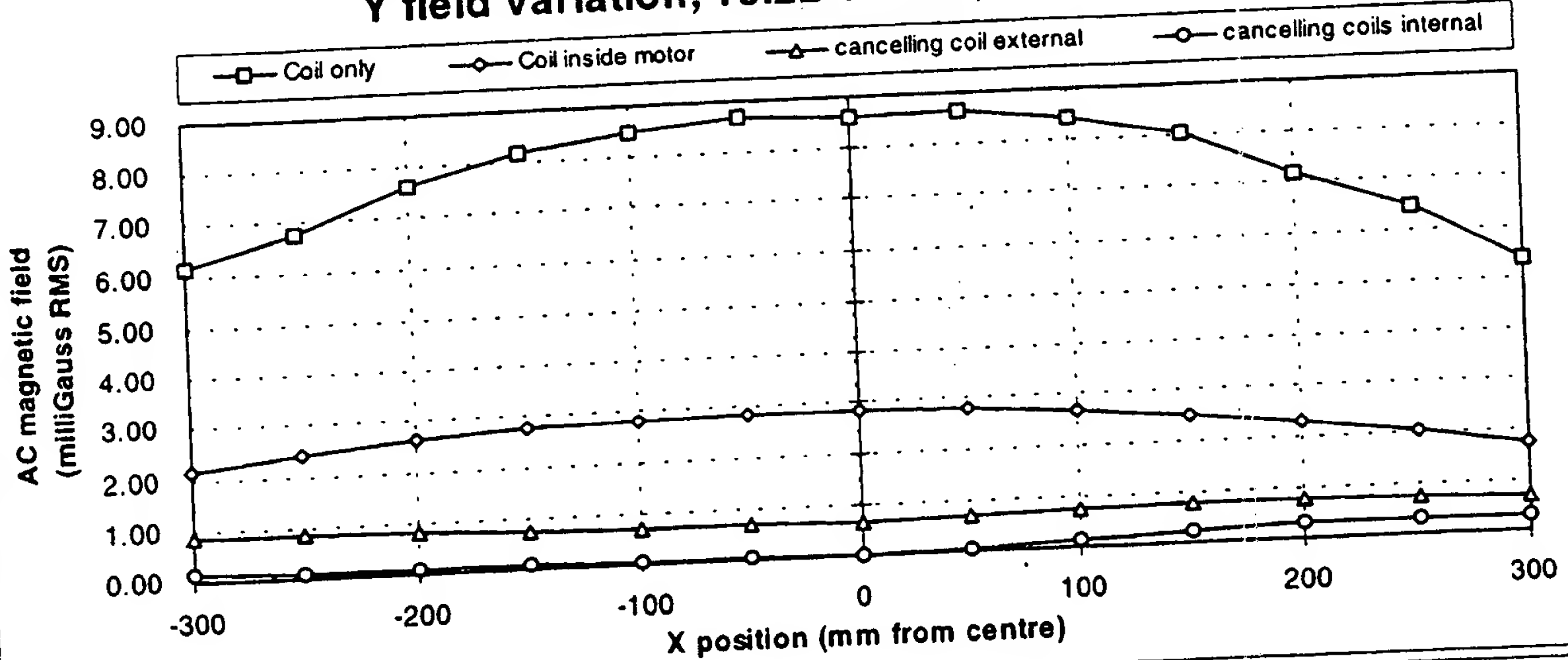


FIG. 6B

X field variation, 18.22 V RMS, Y=0, Z=300



Y field variation, 18.22 V RMS, Y=0, Z=300



Z field variation, 18.22 V RMS, Y=0, Z=300

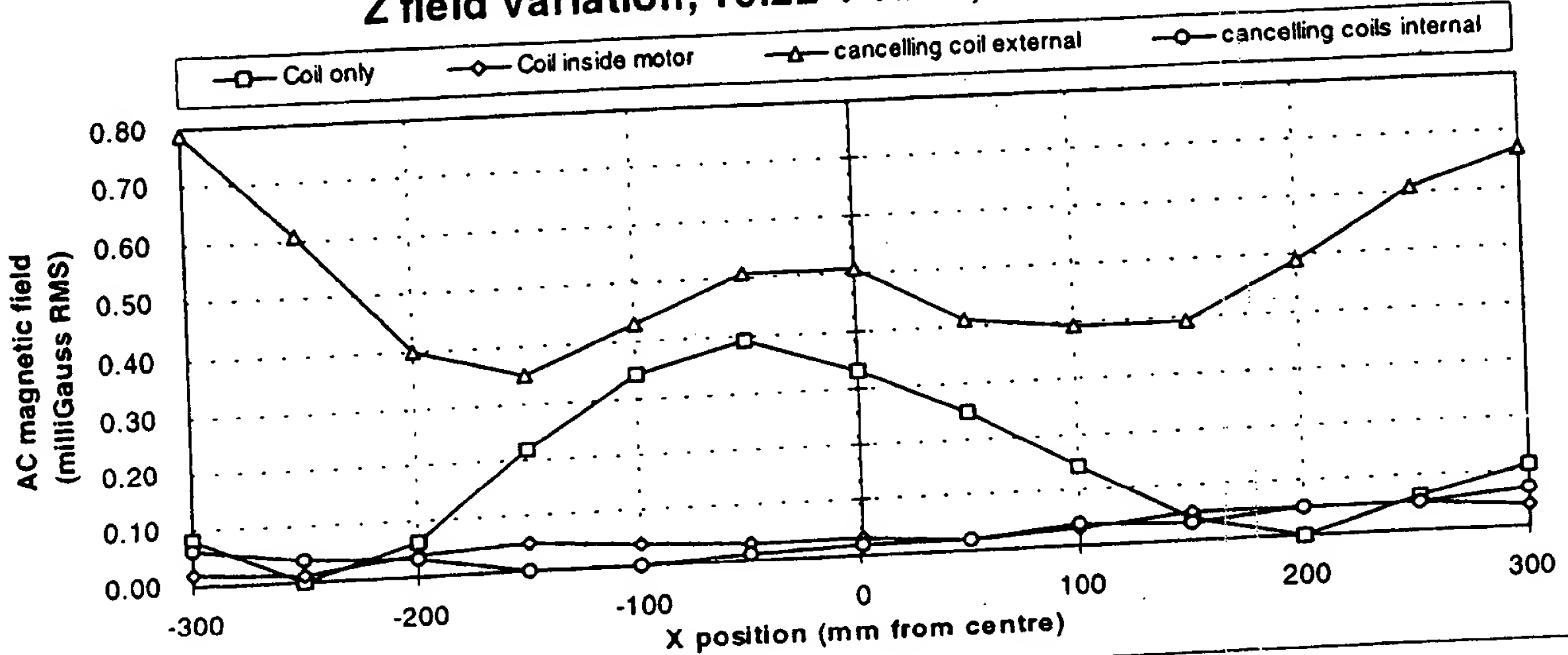
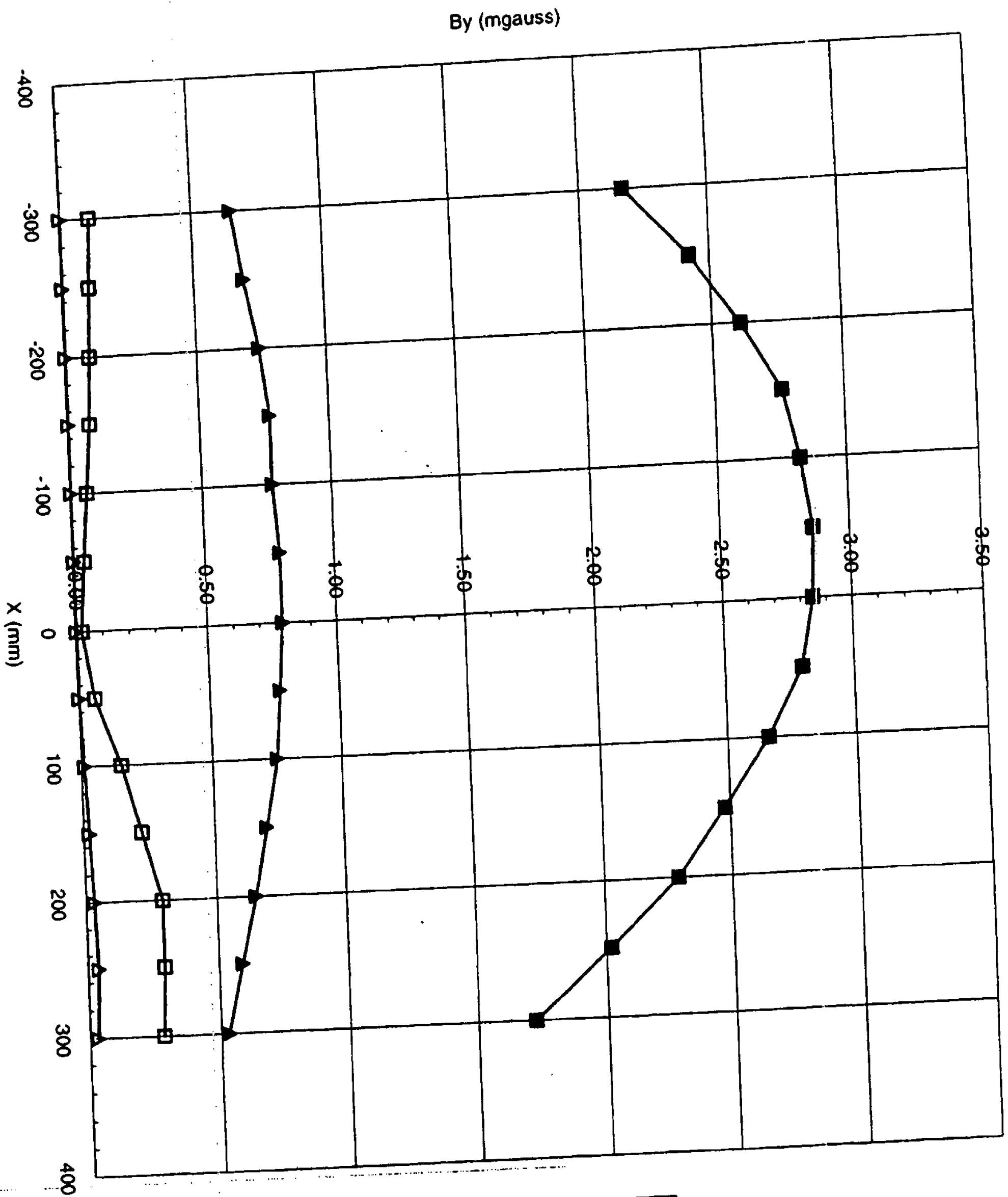


Fig 7



- coil in motor Z = 300 mm
- - - ■ - - canceled field in motor Z = 300 mm
- ▲— coil in motor Z = 500 mm
- - - ▲ - - canceled field in motor Z = 500 mm

Fig. 8

0915250314 0725100

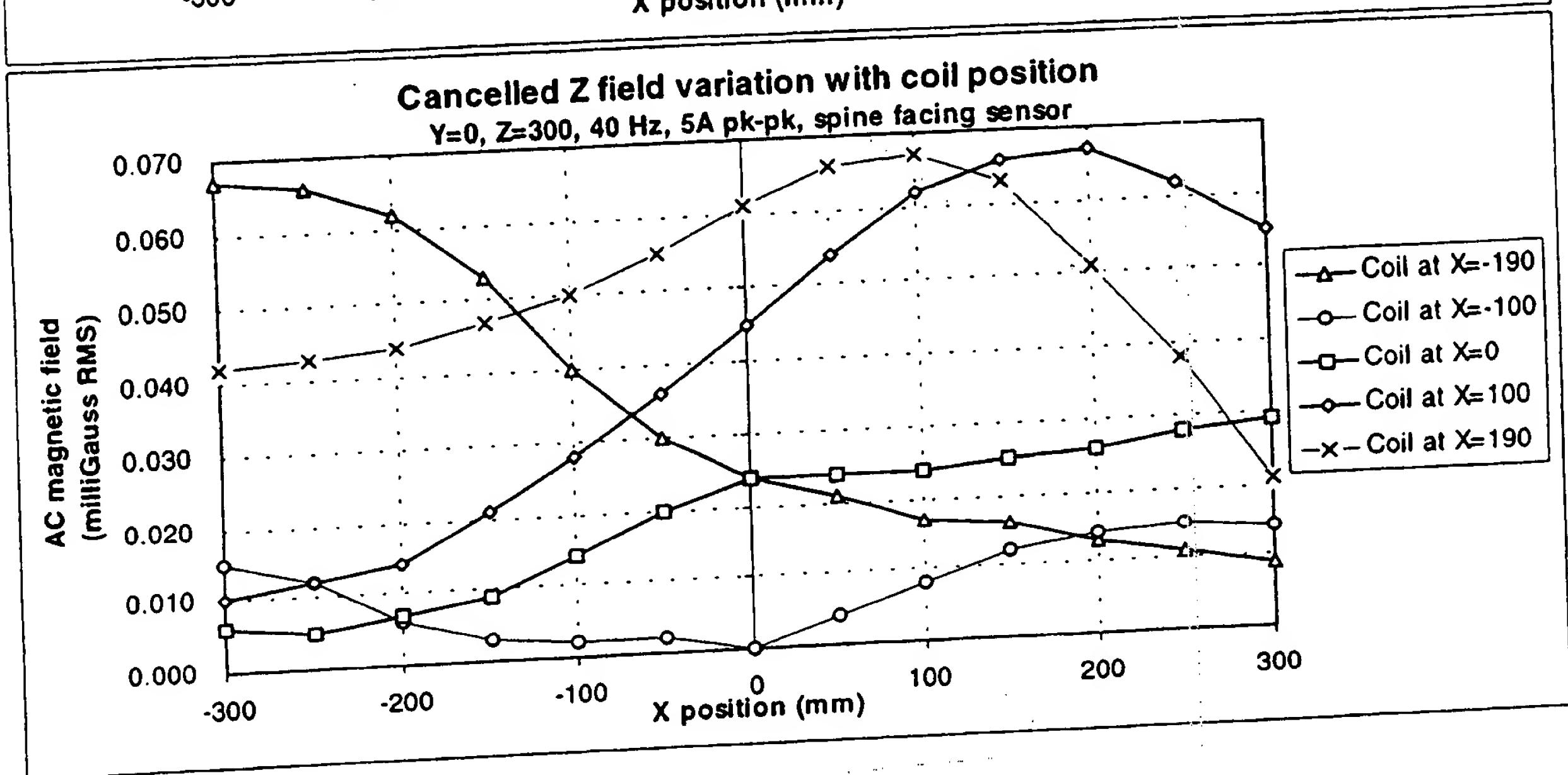
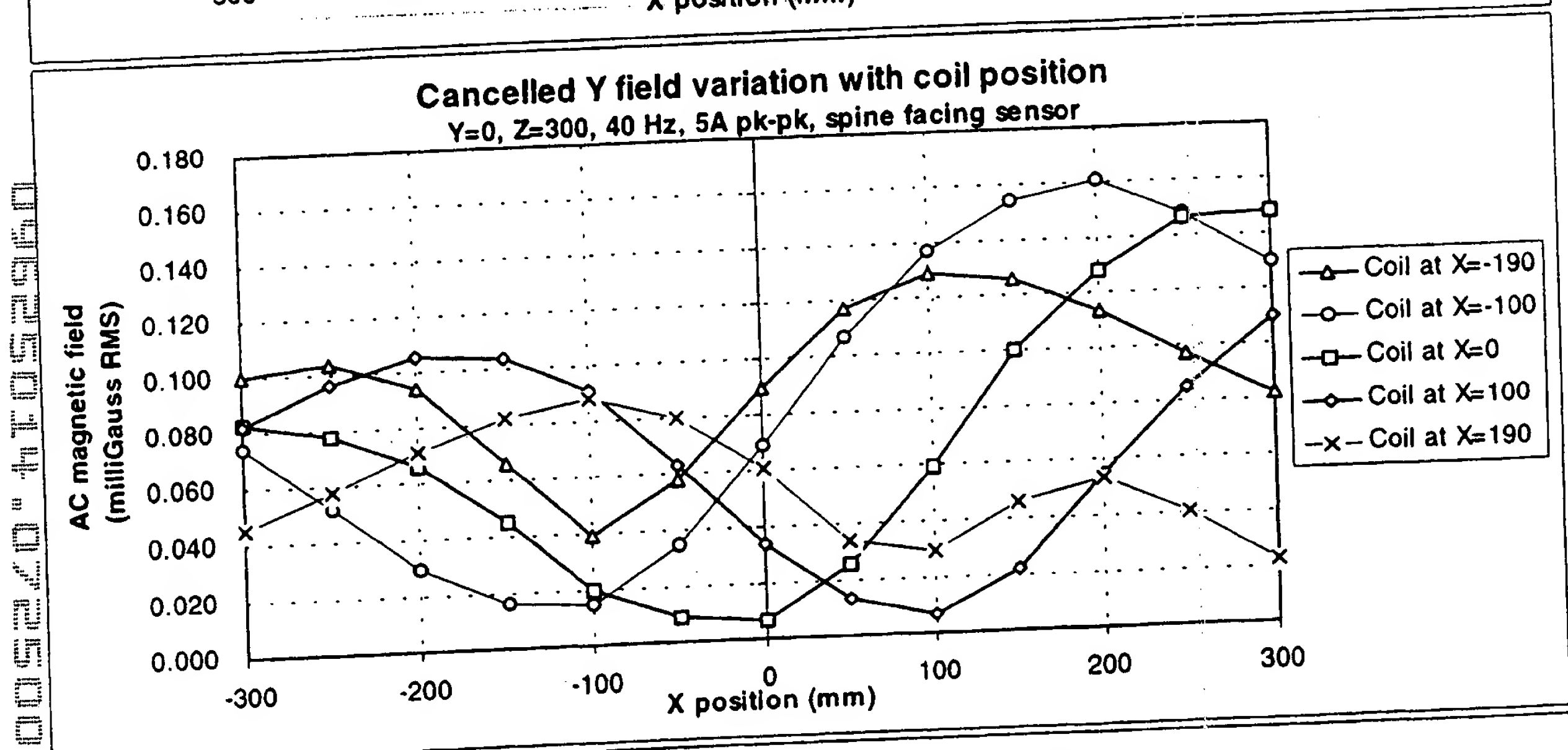
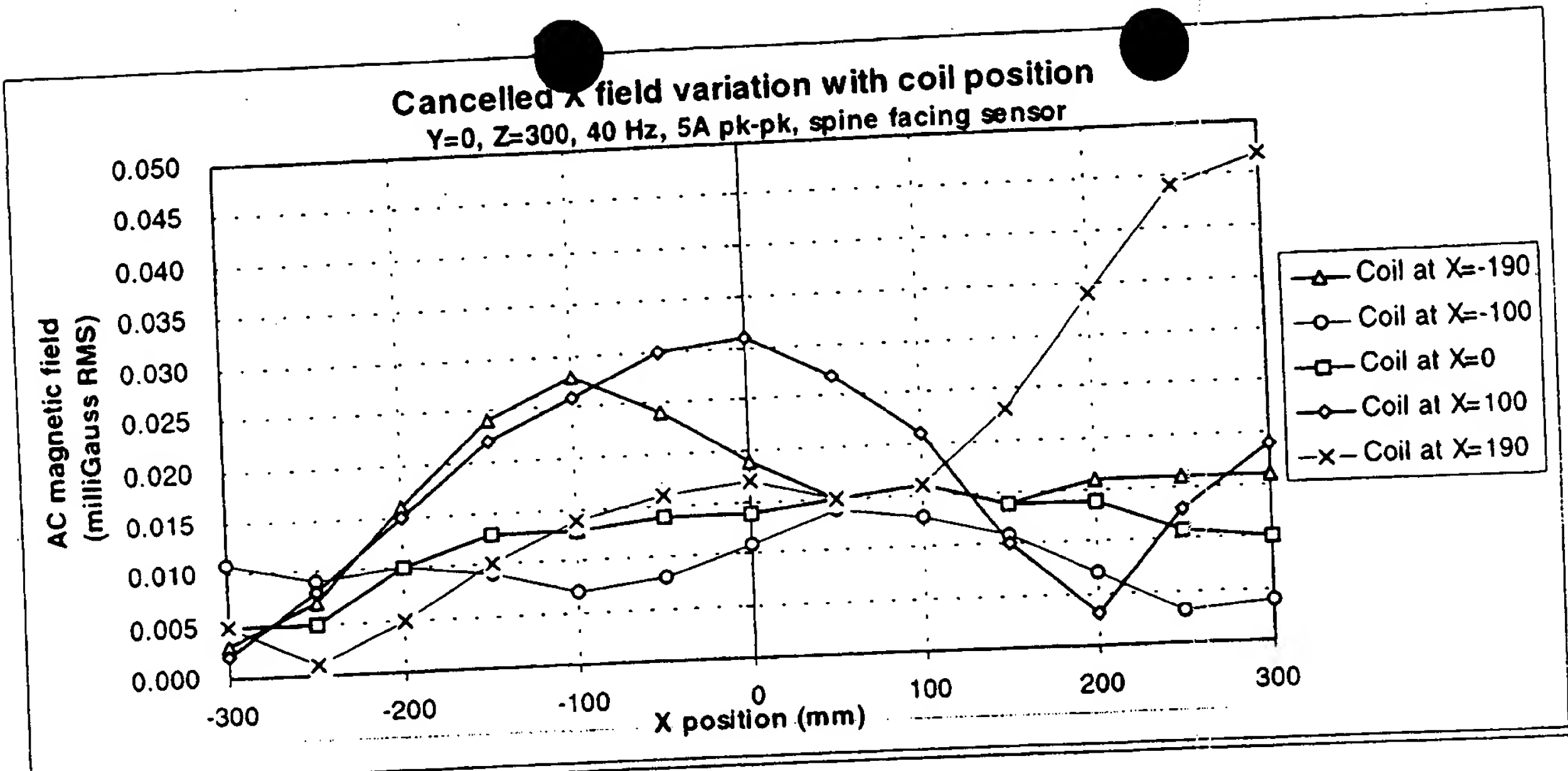
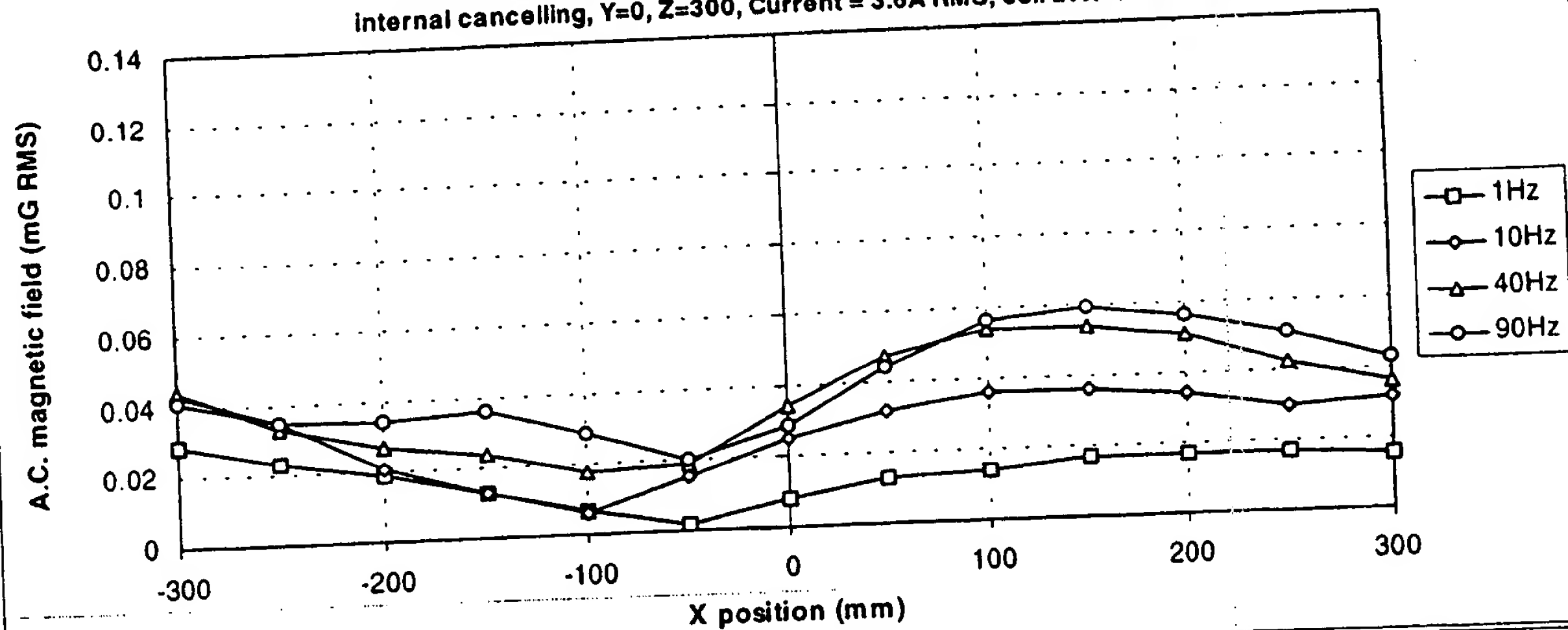


FIG. 9

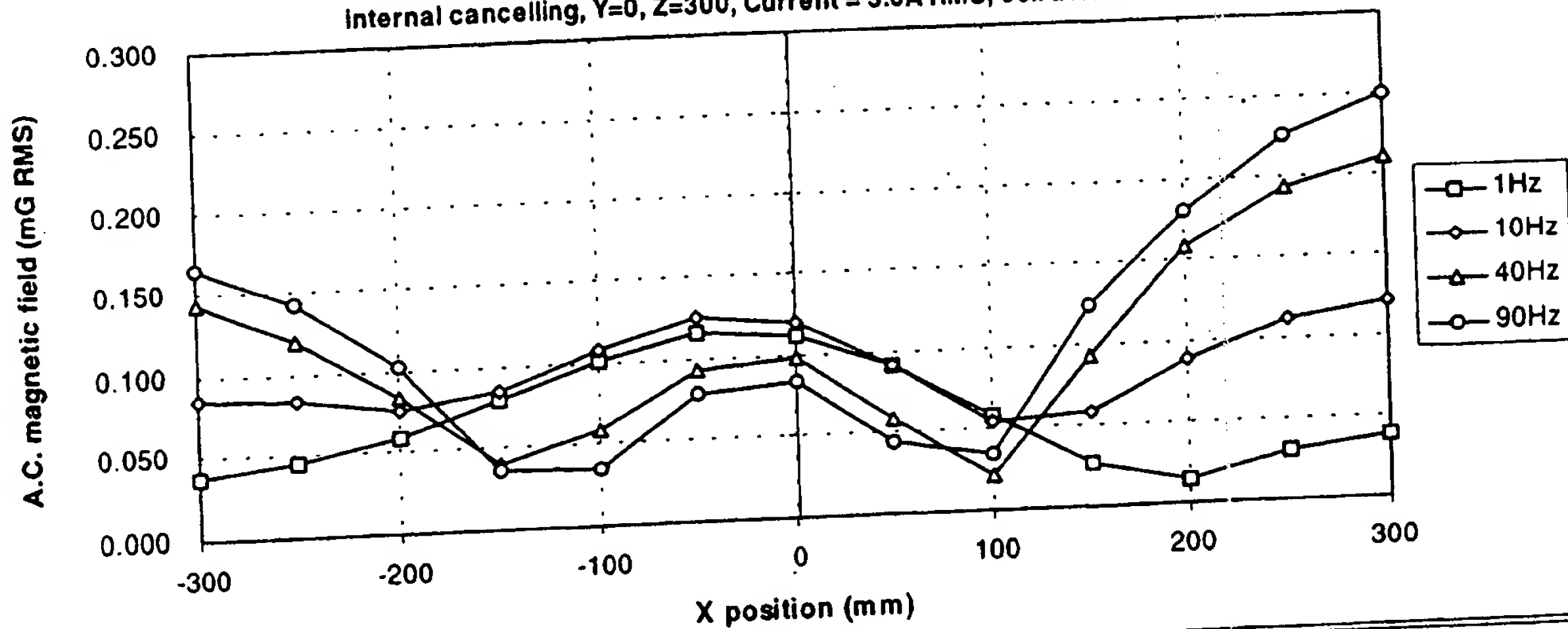
Cancelled X field variation with frequency

internal cancelling, $Y=0$, $Z=300$, Current = 3.6A RMS, coil at $X=0$



Cancelled Y field variation with frequency

internal cancelling, $Y=0$, $Z=300$, Current = 3.6A RMS, coil at $X=0$



Cancelled Z field variation with frequency

internal cancelling, $Y=0$, $Z=300$, Current = 3.6A RMS, coil at $X=0$

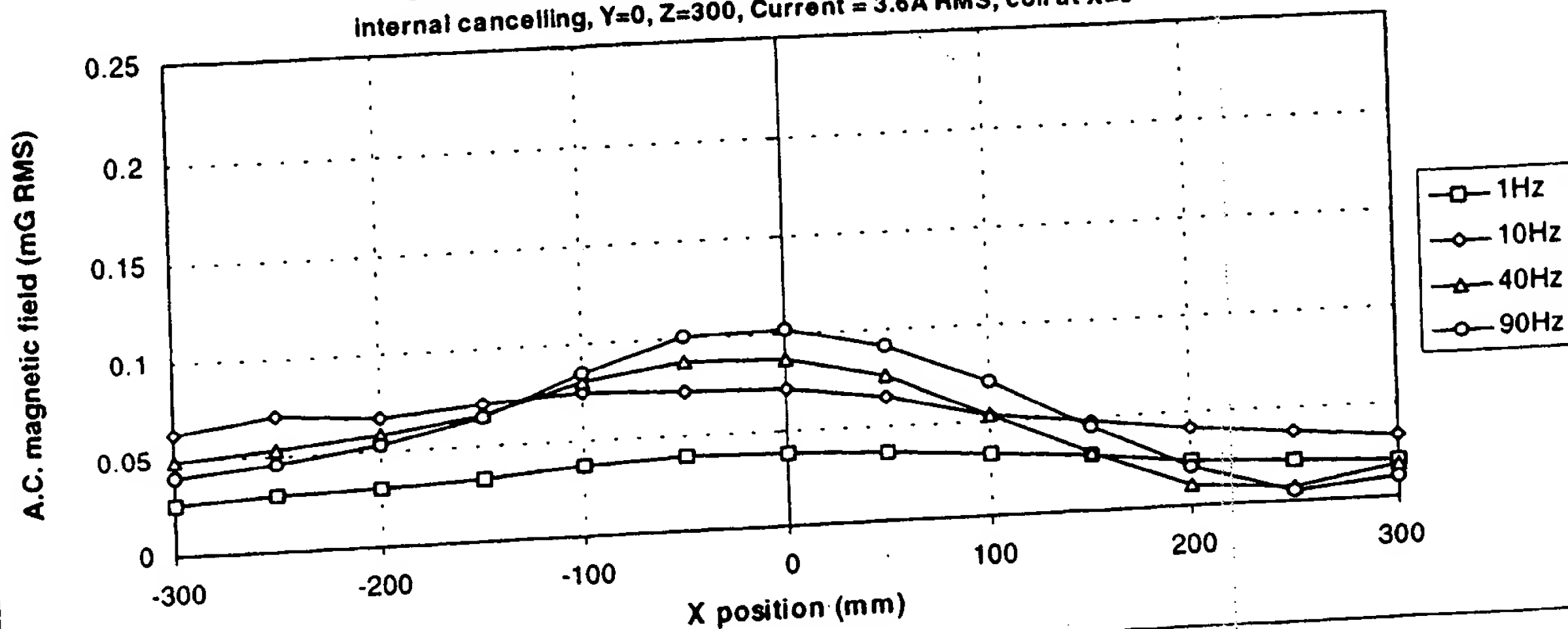


Fig. 10

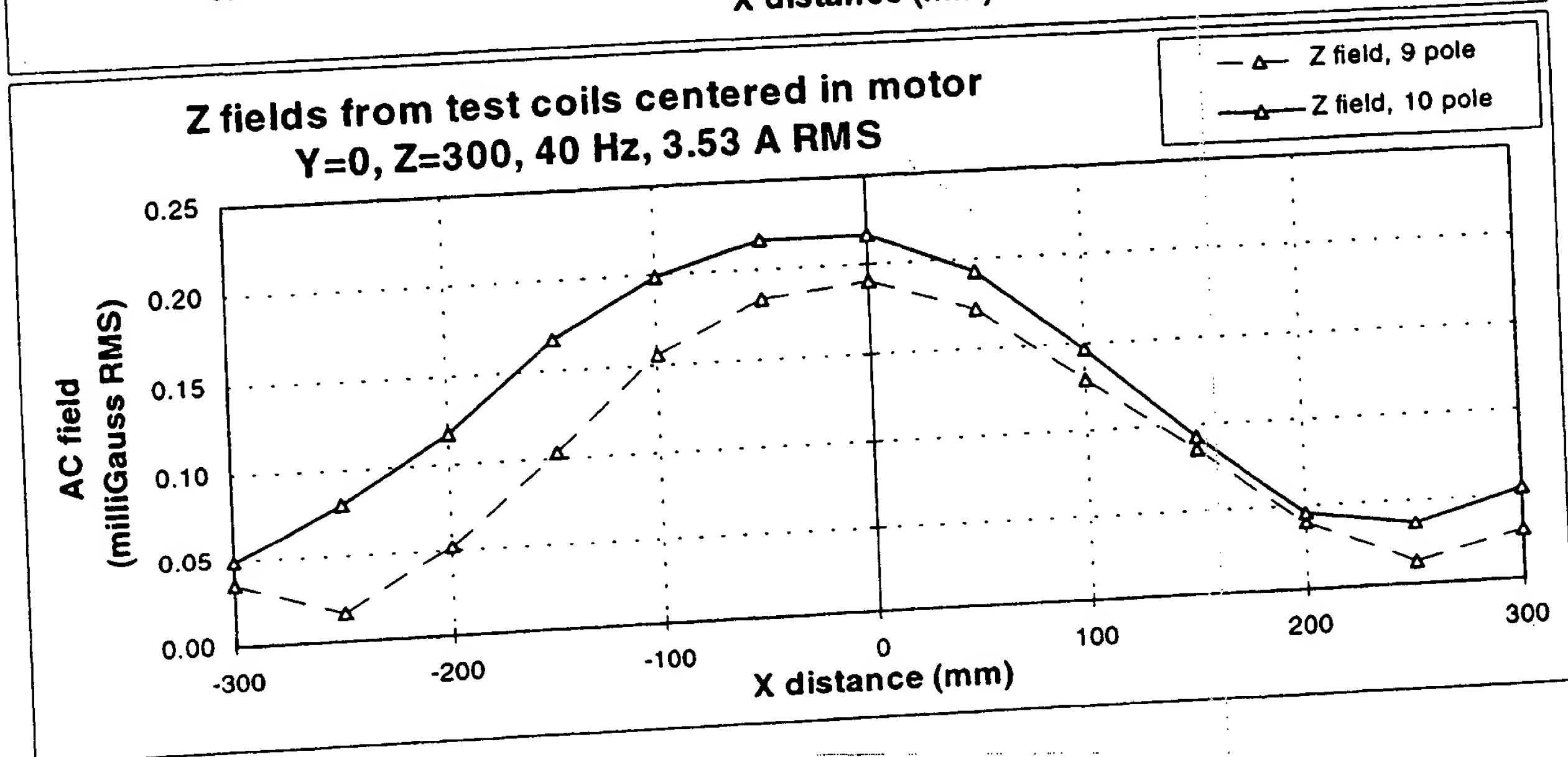
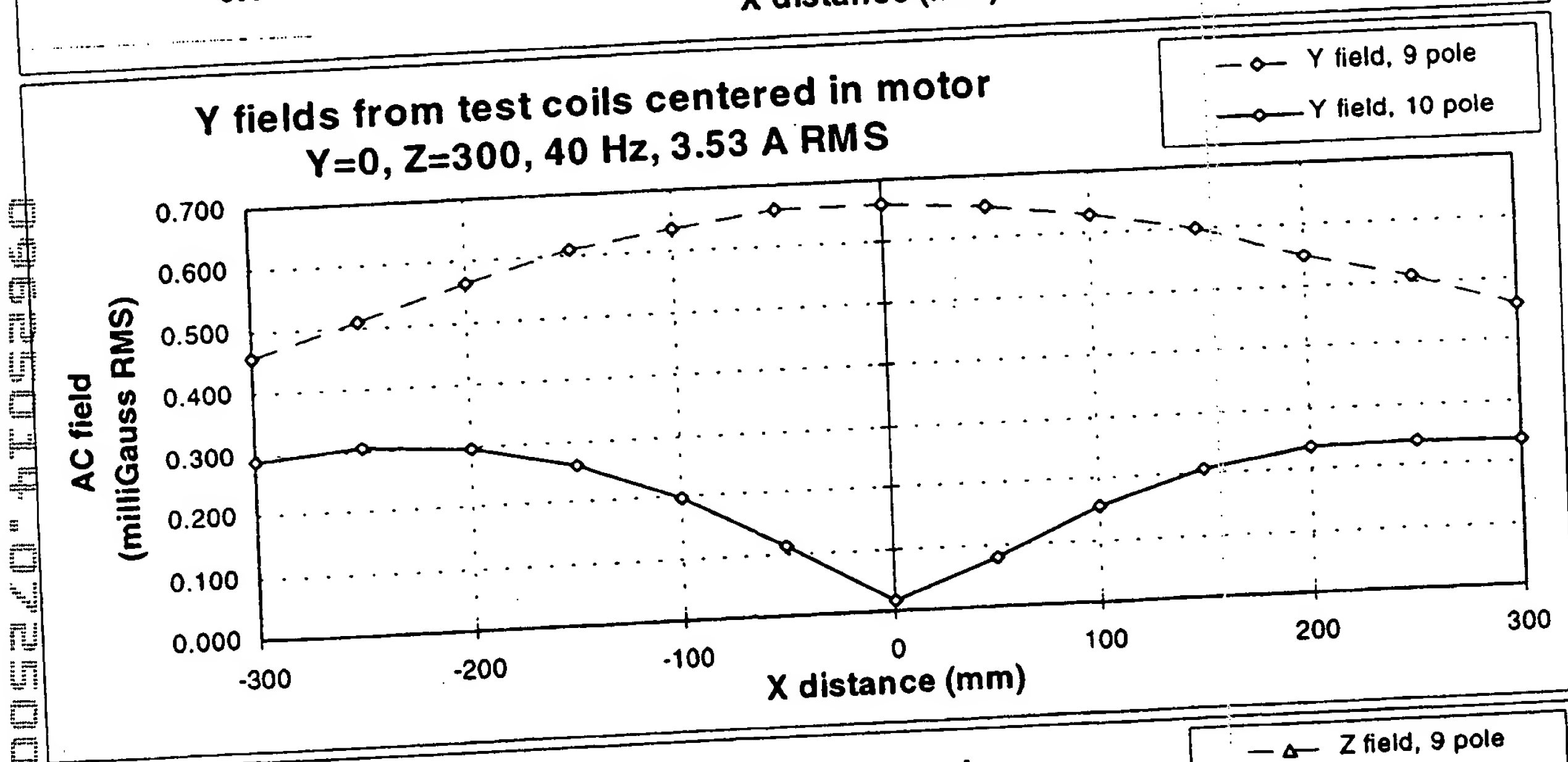
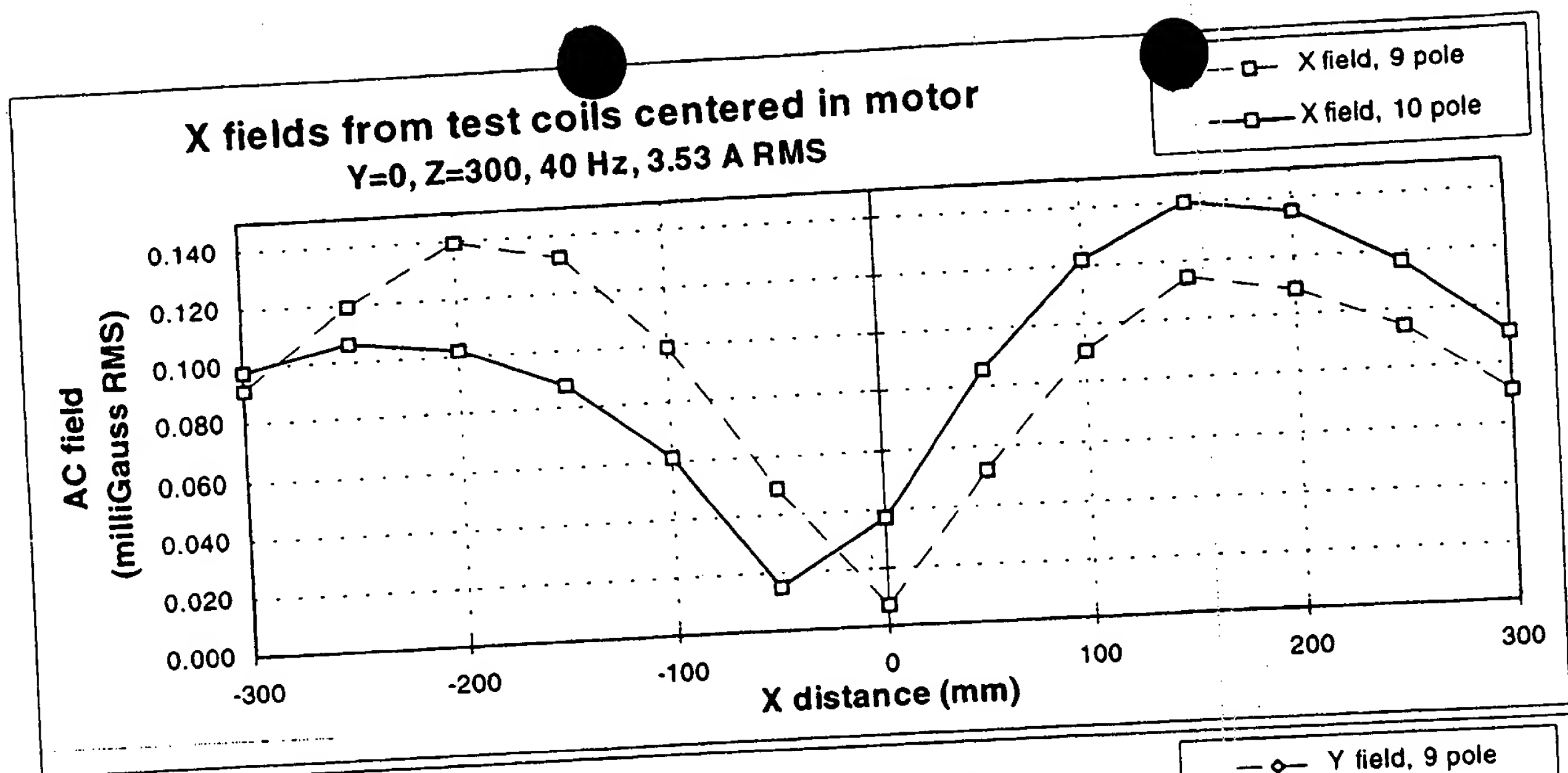
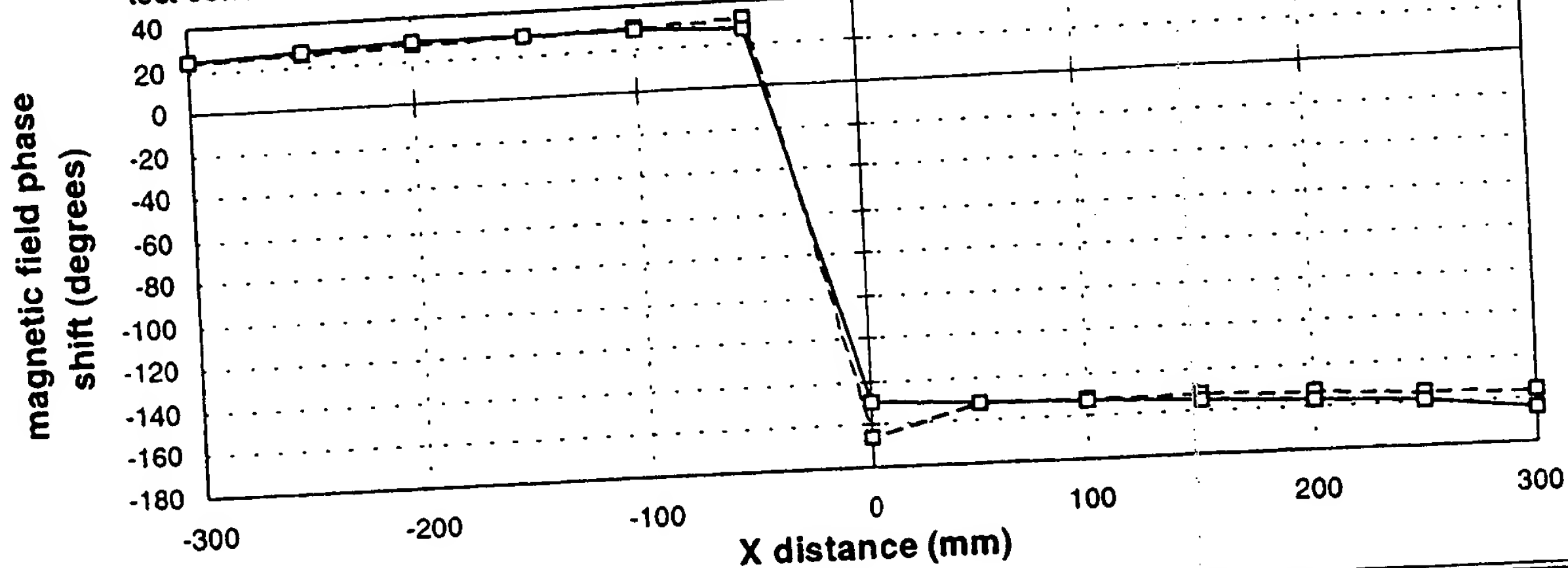


Fig. 11

00520"47032350

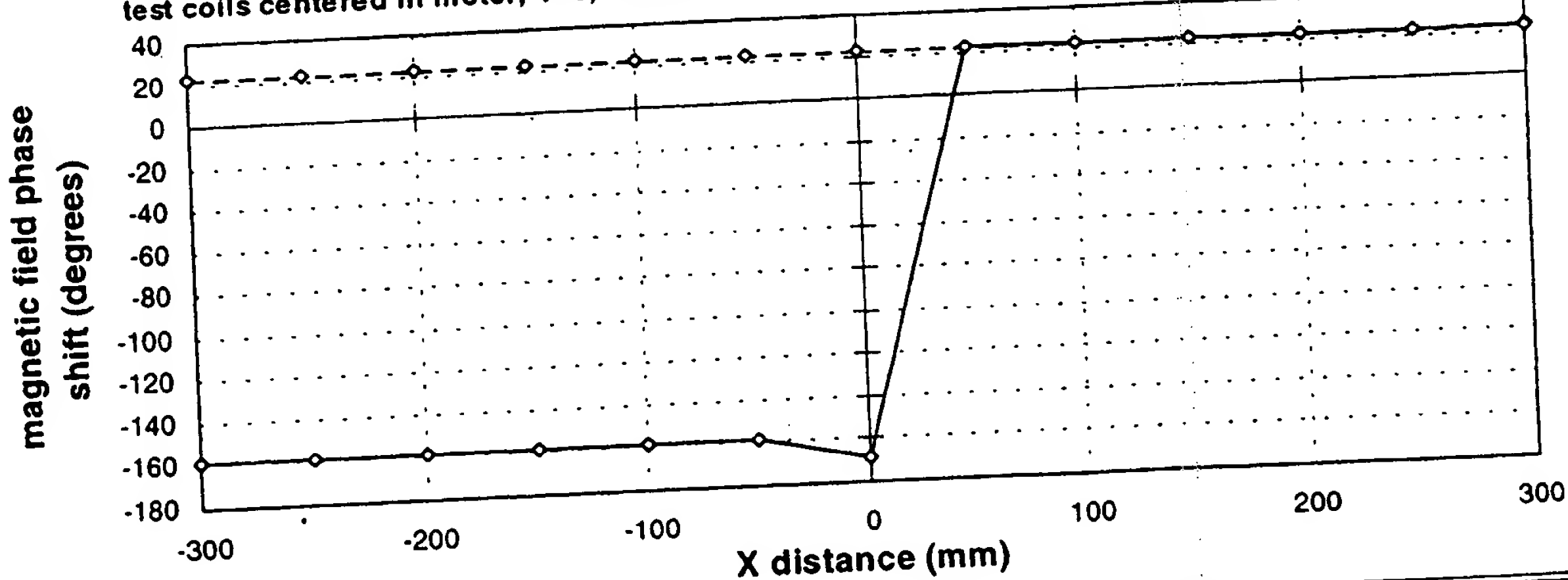
X field phase shift from test coil drive current,

test coils centered in motor, $Y=0$, $Z=300$, 40 Hz, 3.53 A RMS



Y field phase shift from test coil drive current,

test coils centered in motor, $Y=0$, $Z=300$, 40 Hz, 3.53 A RMS



Z field phase shift from test coil drive current,

test coils centered in motor, $Y=0$, $Z=300$, 40 Hz, 3.53 A RMS

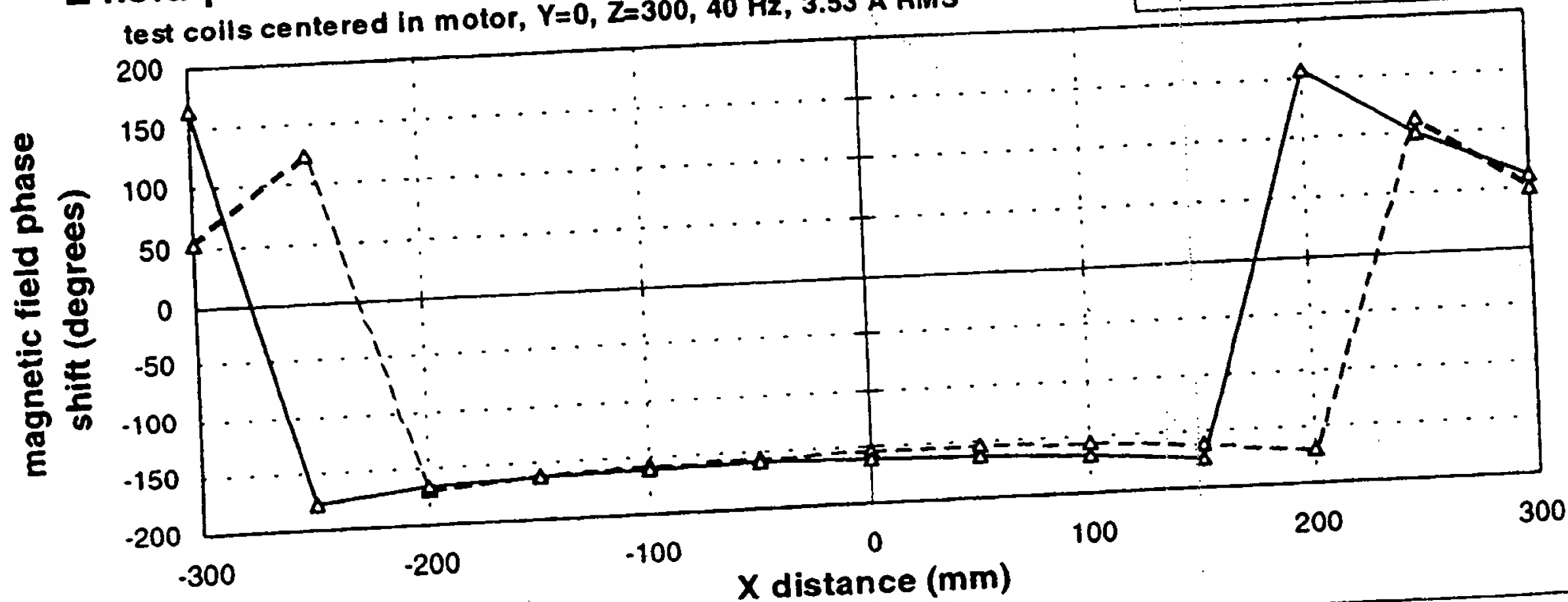


Fig. 12

005240" 4T052960

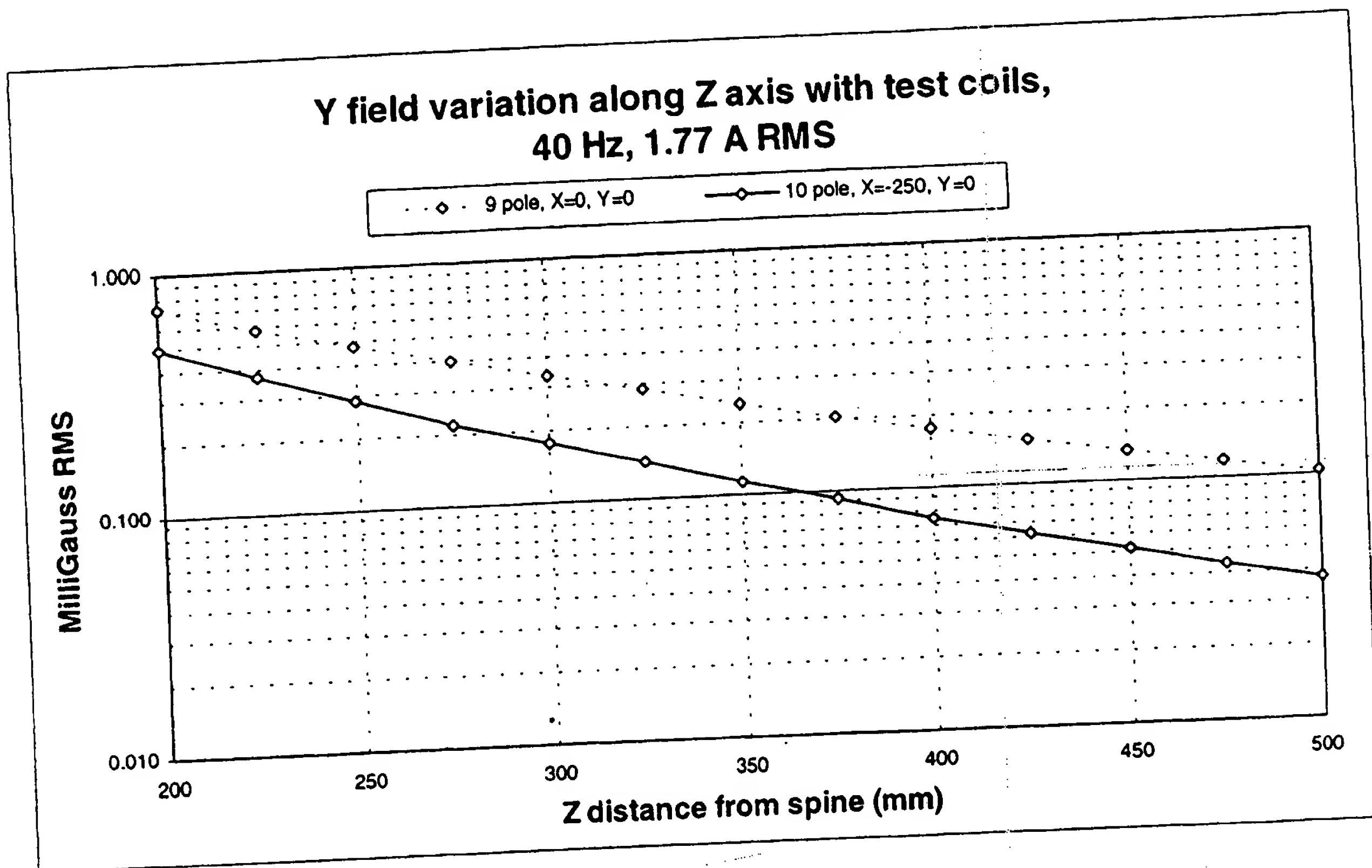


Figure 13

Comparison of theory and data for 9 pole coil and correction

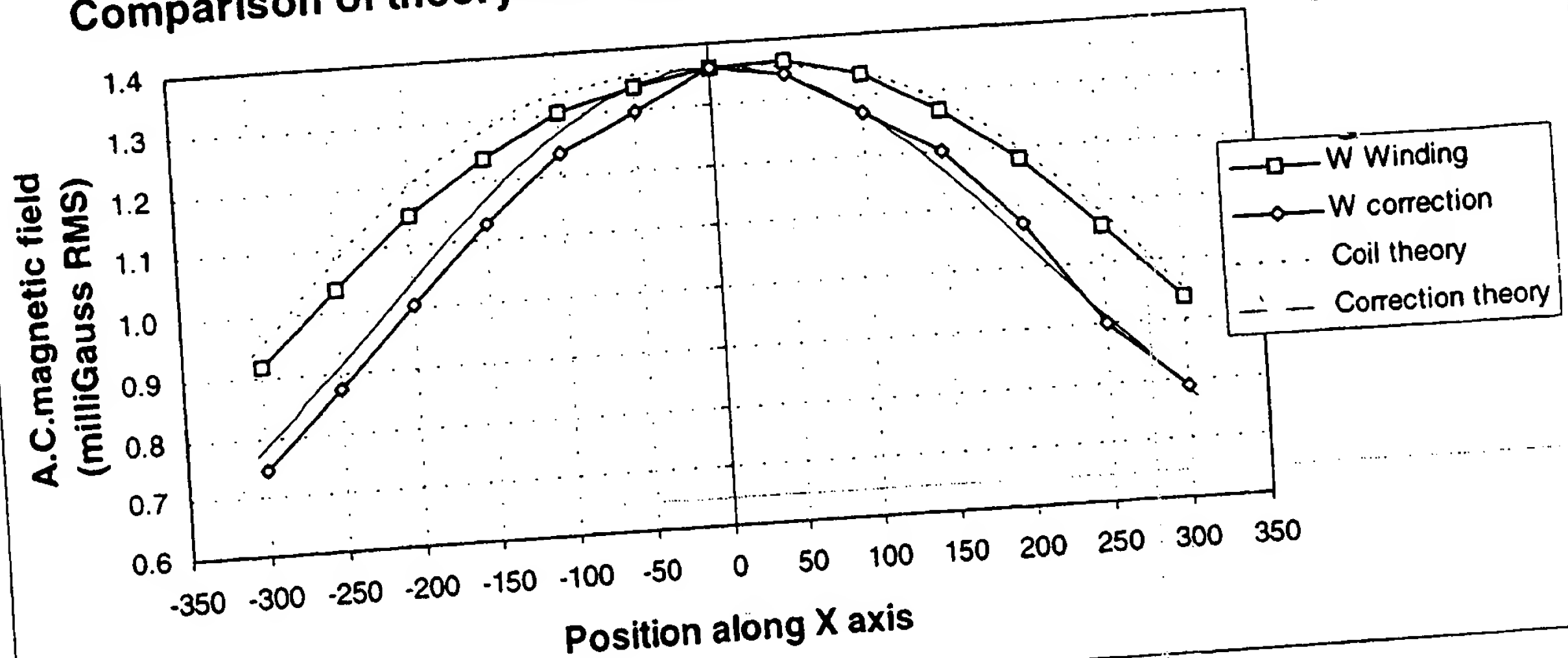


Figure 14

Theoretical comparison of 9 and 10 pole coil and correction

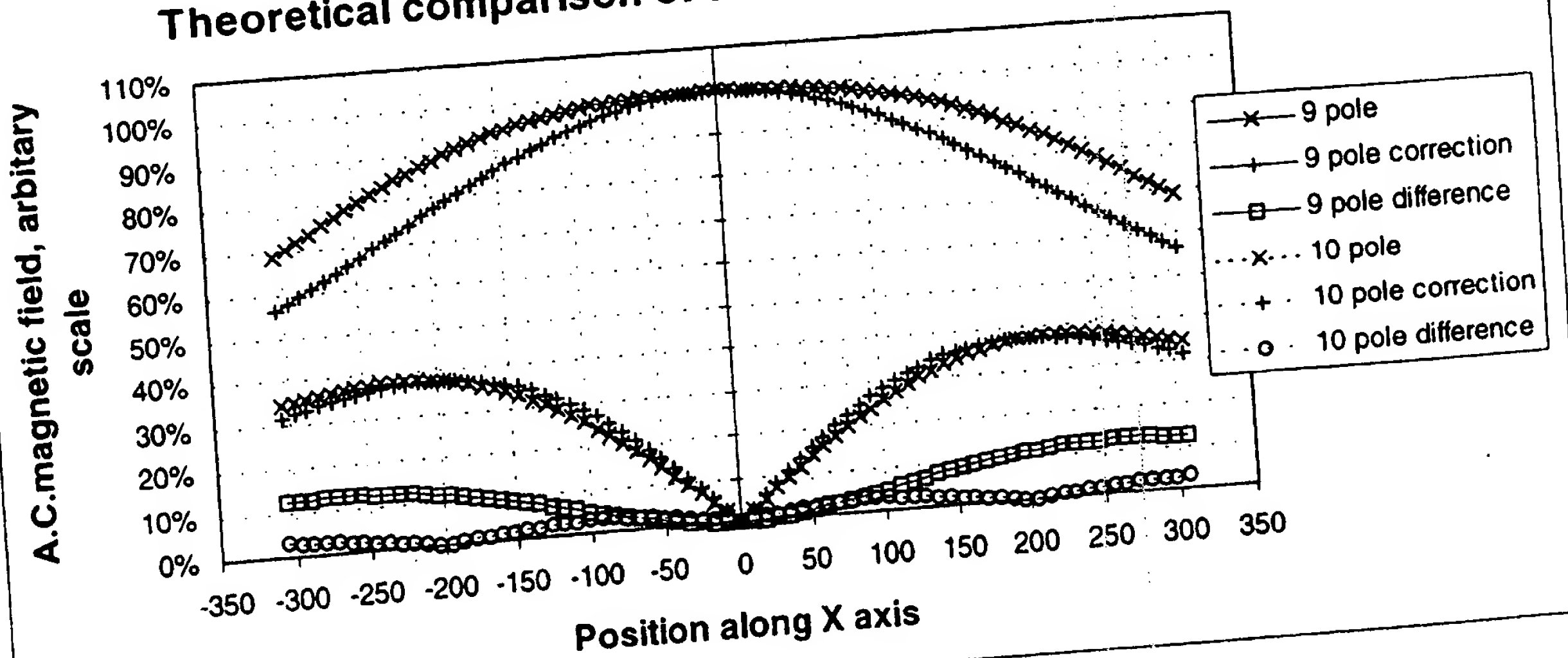


Figure 15

005240-17052960

005220" 47052960

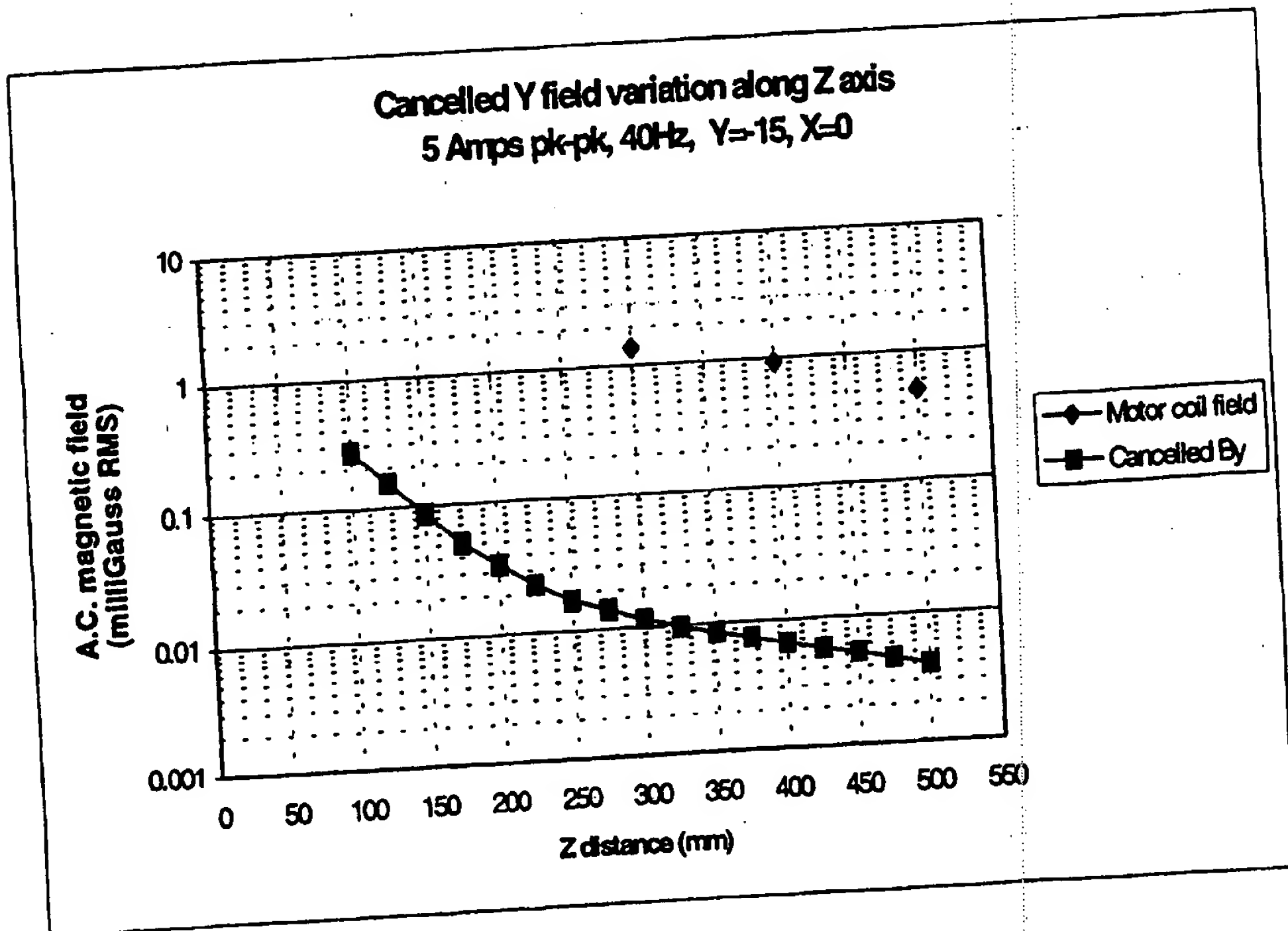
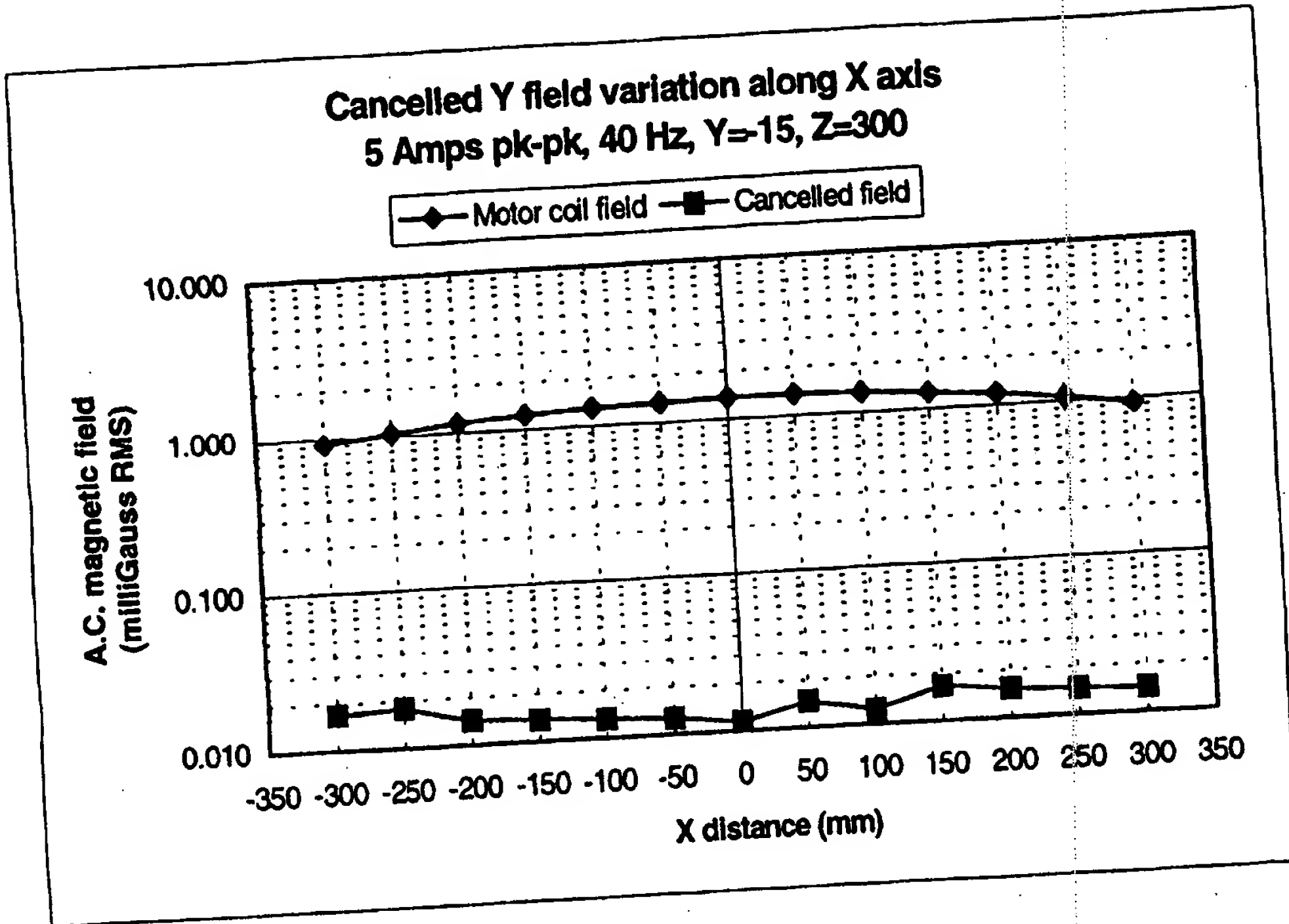


Figure 16

FIG. 17

FIG. 17